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1999 JUL 26 P 2:58

LOG OF MEETING

DIRECTORATE FOR ENGINEERING SCIENCES

SUBJECT: Gate Operators

DATE OF MEETING: December 2, 1998

PLACE: East West Towers
Room 612
Bethesda, MD

LOG ENTRY SOURCE: John Murphy, ESME *JRM*

DATE OF ENTRY: July 26, 1999

COMMISSION ATTENDEES:

John R. Murphy, ESME
Suad Nakamura, HS
Terry Van Houten, HF
Renaue RauchsSchwalbe, CRC

NON-COMMISSION ATTENDEES:

Donald Grob,	Underwriters Laboratories
Chuck Mitchell	GTO Inc.
Wayne Payne	GTO Inc.
Phil Wilkins	GTO Inc.

SUMMARY OF MEETING

The meeting convened at 1:00 PM. This meeting was requested by GTO Inc. to discuss a low powered gate operator manufactured by the company and provisions that Underwriters Laboratories were proposing to apply to this class of gate operator. Wayne Payne demonstrated how the gate operator works and provided details of the safety devices that come with the operator. The operator is intended for swinging gates and is generally used in rural areas, around farm animals, where the provisions that require an audio alarm may create problems. A copy of the UL proposal is attached. The meeting adjourned at 2:30 PM.

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3.17 (Revised) **INDUSTRIAL LIMITED ACCESS VEHICULAR GATE OPERATOR - CLASS III** - A vehicular gate operator (or system) intended for use in locations not intended to service the general public such as an industrial location or building (e.g. a factory or loading dock area).

30A.1.1 A vehicular gate operator or vehicular barrier (arm) operator shall have provisions for, or be supplied with, at least one independent primary and one independent secondary means as specified in Table 30A.1 to protect against entrapment.

Exception No. 1: An operator for a vehicular barrier (arm) that is not intended to move toward a rigid object closer than 2 feet (610 mm), and does not have a pinch point between moving parts by virtue of the operator's design or as a result of installation in accordance with instructions supplied with the operator as specified in 51.8.4 is not required to be provided with means to protect against entrapment.

Exception No. 2: A Class III vehicular gate operator complying with the following conditions is not required to be provided with or have provisions for a secondary means of protection against entrapment nor an audio alarm:

- a) the operator is intended for swing gates only,
- b) the primary entrapment protection device can only be Type A,
- c) the operator is intended to be powered only by a low-voltage power source such as a battery,
- d) the operator shall not develop a force greater than 150 N (34.2 lbf) as measured at the leading edge based on the maximum recommended gate length,
- e) the operator shall limit the speed of the gate to no more than 12 inches per second as measured at the leading edge based on the maximum recommended gate length,
- f) the gate operator shall monitor for the correct operation of the primary entrapment protection device at least once during each open and close cycle
- g) in the event a fault condition occurs which precludes the sensing of an obstruction, the operator shall function as required by 30A.1.14 and 30A.1.15 or shall immediately cease operating, and
- h) software performing a monitoring function shall comply with the applicable requirements in the Standard for Safety Related Software, UL 1998. Monitoring for the correct operation of an entrapment device or circuit is to be distinguished from an entrapment device itself.

The gate operator shall be tested to determine compliance with the above items by installing the operator to the maximum recommended gate length and setting the operator to the maximum force setting. For all tests, measurements shall be made over the entire length of travel except for the first 1 to 4 feet of travel.